UNITED STATES PATENT AND TRADEMARK OFFICE

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10/779,298	02/13/2004	Svetlana Loksh	MS306137.01 / MSFTP550US	7422

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AMIN. TUROCY & CALVIN, LLP
24TH FLOOR, NATIONAL CITY CENTER
1900 EAST NINTH STREET
CLEVELAND, OH 44114

EXAMINER
HUQ, AHMED E

ART UNIT	PAPER NUMBER
4182	

NOTIFICATION DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket1@thepatentattorneys.com
hholmes@thepatentattorneys.com
osteuball@thepatentattorneys.com

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____ .

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-34* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-34* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *03 February 2004* is/are: a)☐ accepted or b)☒ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All   b)☐ Some *   c)☐ None of:

      1.☒ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____ .

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date *8/31/2005;06/07/2004*.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____ .

U.S. Patent and Trademark Office

PTOL-326 (Rev. 08-06)   Office Action Summary   Part of Paper No./Mail Date 20071114

DETAILED ACTION

Priority

1.   Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 10779298, filed on 02/03/20004.

Drawings

1.   The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Figure 1, (hosting component$_x$) requires more labeling for clear understanding. Figure 5, (505,506 are not in the Specification) and (504 is not labeled in the drawing). Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 101

1.   35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2.   Claim 1 is rejected under 35 U.S.C 101 because the claimed invention is directed to non-statutory subject matter. Claim 1 comprised of a system that facilitates a software development environment. It is a method claim where hosting component does not provide any component parts; therefore, the invention lacks patentable utility.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form basis for the rejections under this section made in this office action:

> (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4.   Claims 1-14, 24, 26-34 are rejected under 35 U.S.C. 102(b) a being anticipated by Herrmann (US Pat No. 5,995,756)

        Regarding claim 1, Herrmann discloses a system that facilitates a software development environment, comprising:
An unmanaged application that facilitates processing a document (col 2. lines 4-14, col 2, lines 55-64); and a hosting component that interfaces to the unmanaged application such that the unmanaged application functions as a designer within the development environment (col 2. lines 15-64, col. 3) where Microsoft ActiveX works or MIME as a host application.

5.   Regarding to claim 2, Herrmann shows all the elements of claim 1, Herrmann

further shows Hosting component supports an object linking and embedding (OLE)

technology (col. 2, lines 39-44, col 10. lines 1-15)

6.   Regarding to claim 3, Herrmann shows all the elements of claim 1, Herrmann

further shows the unmanaged application includes at least one of a word processing

application and a spreadsheet application (col. 3, lines 1-20, col. 2 lines 55-65).

7   Regarding to claim 4, Herrmann shows all the elements of claim 1, Herrmann

further shows an integration interface to facilitate integrating a third-party unmanaged

application as a designer in the development environment (col. 7, lines 1-14 where third

party as dialog boxes in an application.)

8.   Regarding to claim 5, Herrmann shows all the elements of claim 1, Herrmann

further shows the development environment is an integrated development environment

(FIG 2, 211. col. 5, lines 36-45).

9.   Regarding to claim 6, Herrmann shows all the elements of claim 1, Herrmann

further shows a host adaptor that interfaces to the unmanaged application, which

adaptor is application specific to facilitate integrating the unmanaged application into the

development environment (see FIG 1B. col. 5, lines 7-56) where Host adaptor is a

compiler.

10.   Regarding to claim 7, Herrmann shows all the elements of claim 1, Herrmann

further shows a document-hosting subcomponent that facilitates hosting the document

that can be manipulated in the development environment (col 6, lines 29-44).

11.   Regarding to claim 8, Herrmann shows all the elements of claim 1, Herrmann further shows the document can be manipulated using at least one of the unmanaged application and the development environment (col. 3, lines 1-20, col. 2 lines 55-65).

12.   Regarding to claim 9, Herrmann shows all the elements of claim 1, Herrmann further shows the document is one of a new document and an existing document (col. 3, lines 1-20).

13.   Regarding to claim 10, Herrmann shows all the elements of claim 1, Herrmann further shows a designer framework that facilitates interfacing the hosting component to the development environment (see FIG 2. 211,201,202. col. 5, lines 36-55 where the designer framework as part of IDE component forms are the source code and IDE forms.)

14.   Regarding to claim 11, Herrmann shows all the elements of claim 1, Herrmann further shows facilitates hosting a plurality of different unmanaged applications (col. 2 line 60-65, col 3. line 21-35, col. 5 lines 38-50 where as plurality of different unmanaged applications HTML, ActiveX, MIME, compiler….)

15.   Regarding to claim 12, Herrmann shows all the elements of claim 1, Herrmann further shows a computer readable medium having stored thereon computer executable instructions for carrying out the system (col. 1. col 2. lines 1-65 where the computer readable storage is HTTP server and carry out instruction is TCP/IP link.)

16.   Regarding to claim 13, Herrmann shows all the elements of claim 1, Herrmann further shows a computer employing the system (see Abstract. See Fig 1A, 1B and Fig

5. Col 5. Lines 6-15, col. 7 lines 1-14 where it shows all the components in the system is part of the computer. Examiner treats computer as a whole.)

17.   Regarding to claim 14, Herrmann shows all the elements of claim 1, Herrmann further shows a tray component that facilitates presenting non-visual data in the IDE (col. 7 lines 29-67 where as tray components are toolbar, main menu; user can navigate within the application.)

18.   Regarding claim 24, Herrmann discloses a computer-readable medium having computer-executable instructions for performing a method of integrating an unmanaged application into a development environment, the method comprising:

         Receiving the unmanaged application (col.6, lines 6-18); and interfacing the unmanaged application to the development environment with a host adaptor that is specific to the unmanaged application such that the unmanaged application is accessible as a designer within the development environment (col. 5, lines 6-55, see FIG 1B. 150, see FIG 2. 211,220,210 where computer readable medium is system memory, host adaptor is the compiler and unmanaged application is word processor, all of these are within the IDE.)

19.   Regarding to claim 26, Herrmann shows all the elements of claim 25, Herrmann further hosting a document in the development environment and exposing a code-behind file associated with the document such that contents of the file can be manipulated (col. 6, lines 29-68 where as form is a content of host document as code editor within development environment.)

20.   Regarding to claim 27, Herrmann shows all the elements of claim 25, Herrmann
further hosting a document in the development environment and exposing a code-
behind file associated with each subdocument of the document such that contents of
each file can be manipulated (col. 6, lines 29-68 where as subdocument are the main
menu, file, edit, command and so on within the document toolbar for editing.)

21.   Regarding to claim 28, Herrmann shows all the elements of claim 25, Herrmann
further providing a view control that triggers in response to an event (col. 11, lines 10-
25, col. 9 lines 14-31 where as, the user clicking on hyperlink triggers an event within
the HTML.

22.   Regarding claim 29, Herrmann discloses a method of integrating an unmanaged
application into a development environment, comprising:

        Receiving the unmanaged application; interfacing the unmanaged application to
the development environment with a host adaptor that is specific to the unmanaged
application such that the unmanaged application is accessible as a designer within the
development environment (col 2. lines 4-14, col 2, lines 55-64 where Microsoft ActiveX
works or MIME as a host adaptor with in development environment.)

        Hosting a document in the development environment such that functionality of
the development environment and the unmanaged application can be used to
manipulate the document (col. 6, lines 29-68 where as form is a content of host
document as code editor of an application can be used for editing within development
environment.)

23.   Regarding to claim 30, Herrmann shows all the elements of claim 29, Herrmann

further shows comprising manipulating the document by at least one of, performing a

drag-and-drop operation of a control onto the document (col. 6, lines 50-67 where as

application can change in design mode), drag-and-drop can be perform within the

design view; viewing a data-behind file associated with the document (col. 2, lines 30-

34); writing managed code in the data-behind file (col. 2, lines 55-65); operating the

designer in a design mode and a runtime mode (col. 5, lines 38-56); presenting non-

visual data and drawing managed objects on the document (col. 6, lines 32-43).

24.   Regarding to claim 31, Herrmann shows all the elements of claim 29, Herrmann

further shows providing a special page of preferences for the unmanaged application

such that when integrated into the development environment, the unmanaged

application behaves according to the preferences (col 5, lines 36-56; where as

preference page is a pre-defined libraries and link for the source code.)

25.   Regarding claim 32, Herrmann discloses a system that facilitates of integrating

an unmanaged application into a development environment, comprising:

        Means for receiving the unmanaged application (Col. 4 lines 58-69, Fig 1A.100-
107);
        Means for interfacing the unmanaged application to the development

environment with a host adaptor that is specific to the unmanaged application such that

the unmanaged application is accessible as a designer within the development

environment (col. 5, lines 6-55, see FIG 1B.150, Fig 1A.102, 107. see FIG 2,

211,220,210);

Means for hosting a document in the development environment such that
functionality of the development environment and the unmanaged application can be
used to manipulate the document; and means for manipulating the document (col. 5,
lines 6-35, col. 6, lines 29-68).

26.   Regarding to claim 33, Herrmann shows all the elements of claim 32, Herrmann
further shows the means for manipulating further comprising manipulating means for at
least one of (col.1, lines 29-54, see FIG. 7), performing a drag-and-drop operation of a
control onto the document (col. 6, lines 50-67); viewing a data-behind file associated
with the document (col. 2, lines 30-34); writing managed code in the data-behind file
(col. 2, lines 55-65); operating the designer in a design mode and a runtime mode (col.
5, lines 38-56); presenting non-visual data and drawing managed objects on the
document (col. 6, lines 32-43).

27.   Regarding to claim 34, Herrmann shows all the elements of claim 32, Herrmann
further shows means for exposing properties and components of the document for
manipulation (col 5. lines 6-35)

Claim Rejections - 35 USC § 103

28.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

29.   Claim 15-23, 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Herrmann (5,995,756) in view of DaSilva et al. (6,493,868).

30.   Regarding claim 15, Herrmann discloses a system that facilitates an IDE,

comprising:

An unmanaged application that facilitates processing a document (col 2. lines 4-

14, col 2, lines 55-64);

A hosting component that interfaces to the unmanaged application such that the

unmanaged application functions as a designer within the IDE (col 2. lines 15-64, col. 3

where as Herrmann discloses Microsoft ActiveX works or MIME as a host application

within the software development environment.) IDS have the same functionality as

software development environment. Regarding to this limitation, it would have been

obvious to one of ordinary skill in the art to understand that to modify an integrated

development tools into software development application within the environment, so that

user can easily access distributed applications.

An integration interface to facilitate integrating a third-party unmanaged

application as a designer in the development environment (col. 7, lines 1-14 where the

third party refers to as dialog boxes or form and other components in an application.)

A host adaptor that interfaces to the unmanaged application, which adaptor is

application specific to facilitate integrating the unmanaged application into the

development environment (col. 8, lines 10-65 where the host adaptor is a MIME.)

Herrmann does not disclose a document-hosting subcomponent that facilitates

hosting a document that can be manipulated in the development environment, but

DaSilva teaches document hosting subcomponent that can be manipulated in the IDE

DaSilva et al disclose in (col 2. lines 25-53 where subcomponents refers to as source

file, object files, libraries and more.) It would have been obvious to one of ordinary skill

in the art to understand to modify an application within IDE using integrated

development tools, so that user can easily edit, build and debug programs.

31.   Regarding to claim 16, Herrmann and DaSilva et al. shows all the elements of

claim 15, but Herrmann further shows a designer framework that facilitates interfacing

the hosting component to the development environment (see FIG 2. 211,201,202. col.

5, lines 36-55 where as the designer framework part of IDE component from source

code and forms and the host component compiler is integrated within the IDE.)

32.   Regarding to claim 17 Herrmann and DaSilva et al. shows all the elements of

claim 15, DaSilva further shows native functionality of the unmanaged application is

available within the IDE (col.2, lines 4-22, 26-30, 43-66) It would have been obvious to

one of ordinary skill in the art to understand where native functionality within IDE is the

component that facilitate the IDS in environment, so that user can easily configuring,

building, debugging, tracing and analyzing the programs.

33.   Regarding to claim 18 Herrmann and DaSilva et al. shows all the elements of

claim 15, DaSilva further shows facilitates adding a control to the document and editing

properties of the control (col. 2, lines 30-42 where IDE allows editing program codes.) It

would have been obvious to one of ordinary skill in the art to understand where editing

functionality within IDE provide the entire component that facilitate the within

environment, it will help user easily to navigate tools to edit, build and debug programs.

34.   Regarding to claim 19 Herrmann DaSilva et al. shows all the elements of claim 15, in view of Herrmann further shows facilitates a merging of menus of the unmanaged application and the IDE (col. 6, 29-44 where as (FIG 3, 360) application development interface is part of IDE.)

35.   Regarding to claim 20, Herrmann and DaSilva et al. shows all the elements of claim 15, in view of Herrmann further shows the document contains at least one of embedded and linked objects (col. 5, lines 36-55 where compiler works as a embedded and OLE linked object to use an application interface within IDE development tools.)

36.   Regarding to claim 21 Herrmann and DaSilva et al. shows all the elements of claim 15, in view of Herrmann further the presentation of a properties window that displays properties for code-behind project items (col. 6, lines 42-68 where as the form is a properties of a window item, which is part of the user interface within IDE.

37.   Regarding to claim 22 Herrmann and DaSilva et al. shows all the elements of claim 15, DaSilva further shows the designer operates in a design view and a code view (col. 1, lines 36-50, col. 2, lines 42-50 where as source code is edited in design view.) It would have been obvious to one of ordinary skill in the art to understand to edit codes within IDE using development tools will help user to edit, build and debug programs.

38.   Regarding to claim 23 Herrmann DaSilva et al. shows all the elements of claim 15, in view of Herrmann further shows the designer can handle the document in at least one of a binary format and an XML format (Col. 11, lines 10-35 where as designer application HTML views the document in binary format. XML is the extended version of

HTML, XML is a text-based designer within the intergraded development tools of

HTML.)

39.   Regarding to claim 25, Herrmann shows all the elements of claim 24, in view of

DaSilva et al. DaSilva et al. further shows hosting a document in the development

environment such that the document is manipulated using native functionality of the

unmanaged application and functionality of the development environment (col.2, lines 1-

65) It would have been obvious to one of ordinary skill in the art to understand where

native functionality within application and its component that facilitate the developmental

tools within IDE, so that user can easily develop, edit, and debug programs.

Conclusion

Applicant advised to review these references below, that are related to the

application: Goodman et al. (70,020,697) teaches (col. 16 lines 17-25, col. 8 lines 18-

25) within IDE framework and associated guideline it reduce cost involving design,

implement and maintain of an IDE.

Arnold et al (US 2003/0172076) teaches Programming assistance within IDE (

paragraph 0011, 0031)

Bowman-amuah (US 7,289,964) teaches execution of standard architecture

framework within IDE.

O'leary et al (5,950,000) teaches software development environments and more

particularly to methods, systems, and computer program products for integrating third

party tools into an integrated programming environment (IPE).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ahmed E. Huq whose telephone number is 571-270-1515. The examiner can normally be reached on Monday-Friday 7:30-5:00; Alternate Friday OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nguyen Thu can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ahmed E Huq/
Examiner, Art Unit 4182
12/10/2007

/Thu Nguyen/
Supervisory Patent Examiner, Art Unit 4182